



Department:	Mathematics	
Year 8 Course Summary:		
<p><b>Straight Line Graphs</b>  Is that Point on a Line?  Drawing Straight Line  Finding the Gradient  Investigating Straight Lines  Equation of a Line  Perpendicular Lines  Solving Simultaneous Equations Graphically</p> <p><b>Powers and Equations</b>  Simplifying Expressions with Powers  Laws of Indices  Expanding Single Brackets  Solving Equations  Formulae  Forming Equations  2D Inequalities</p> <p><b>Quadratics and Graphs</b>  Real Life Graphs  Interpreting Graphs  Graphing Quadratics  Expanding Single Brackets  Expanding Double Brackets  Factorising Linear Expressions  Factorising Quadratics  Linear Sequences  Quadratic Sequences  Other Sequences  Iteration</p>	<p><b>Angles and Constructions</b>  Angles in Polygons  Regular Polygons  Polygons and Parallel lines  Constructions  Constructing Triangles  Loci</p> <p><b>Statistical Enquiry</b>  Calculating Statistics  Calculating Quartiles  Line Graphs for Time Series  Scatter Graphs  Finding the Line of Best Fit  Collecting and Organising Data  Analysing and Representing Data  Interpreting Data  Reporting and Evaluating</p> <p><b>Set Theory and Probability</b> Basic Set Theory  Venn Diagram for Probability  Probability Events Won't Happen  Mutually Exclusive Events  Practical Probability Experiments  Simulating Probability Events</p>	<p><b>Measures</b>  Circles  Areas of Circles  Arcs and Sectors  Perimeter  Areas of common shapes  Volume  Problem Solving involving Area and Volume  Plans and Elevations  Pythagoras' Theorem  Calculating the Length of the Hypotenuse  Calculating the Lengths of Other Sides</p> <p><b>Fractions and Proportion</b>  Simplifying and Comparing Fractions  Arithmetic with Fractions  Factorising Linear Expressions Review  Factorising Quadratics Review  Simplifying, Multiplying and Dividing Algebraic Fractions  Converting Decimals to Fractions  Direct Proportion</p> <p><b>Place Value and Calculations</b>  Measurement  Conversion  Powers of 10  Rounding  Roots</p>
IST Assessments:		
There will be IST Assessments at the end of each of the modules indicated in bold.		